(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/074987 A1

A61K 41/00, (51) International Patent Classification⁷: A61N 5/06, A61K 31/409, A61P 17/10, A61K 31/07, 31/203, 31/555

(21) International Application Number:

PCT/CA2005/000141

(22) International Filing Date: 4 February 2005 (04.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2457214 2,470,403 6 February 2004 (06.02.2004) CA CA

9 June 2004 (09.06.2004)

(71) Applicant (for all designated States except US): QLT INC. [CA/CA]; 887 Great Northern Way, Vancouver, British Columbia V5T 4T5 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CURAUDEAU, Alain, H. [FR/CA]; 1785 Fulton Avenue, West Vancouver, British Columbia V7V 1S8 (CA). NEYNDORFF, Herma, C. [NL/CA]; 1826 Grant Street, Vancouver, British Columbia V5L 2Y8 (CA). TAO, Jing-Song [CA/CA]; 2450 West 18th Avenue, Vancouver, British Columbia V6L 1B1 (CA). LAM, Morgan, Chun [CA/CA]; 3093 - 29th Avenue West, Vancouver, British Columbia V6L 1Y5 (CA). CURRY, Patrick, Mark [CA/CA]; 638 East 21st Avenue, Vancouver, British Columbia V5V 1R7 (CA). RUBINCHIK, Valery [CA/CA]; 10493 Yarmish Drive,

Richmond, British Columbia V7E 5L5 (CA). HUNT, David, W., C. [CA/CA]; 12722 Beckett Road, Surrey, British Columbia V4A 2X1 (CA).

- (74) Agents: SMART & BIGGAR et al.; Suite 2200, 650 West Georgia Street, Box 11560, Vancouver Centre, Vancouver, British Columbia V6B 4N8 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PHOTODYNAMIC THERAPY FOR THE TREATMENT OF ACNE

(57) Abstract: The present method involves the photodynamic treatment of acne vulgaris. The method involves the topical administration of a photosensitizer composition comprising hydrophobic green porphyrins such as lemuteporfin, polyethylene glycol and skin penetration enhancers such as oleyl alcohol and TRANSCUTOLTM to acne-affected skin and subsequent exposure of that skin to energy of a wavelength of activating the photosensitizer.





1